

Atty. Docket No. 8062-1023

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Fumihide NISHIO

Confirmation No. 9947

Serial No. 10/501,671
(PCT/JP03/00339)

PCT/DO/EO

Filed July 16, 2004

HIGH-CONCENTRATION PREPARATION
OF SOLUBLE THROMBOMODULIN

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

June 28, 2005

Sir:

In response to the accompanying Notification of Missing Requirements under 35 U.S.C. § 371 mailed March 31, 2005, we enclose herewith the executed Declaration, which was omitted at the time of filing the application. The required 37 C.F.R. § 1.492(e) surcharge was paid at the time of filing the application. Also enclosed is a Supplemental Application Data Sheet.

Attached herewith is a Statement to Support Filing and

Docket No. 8062-1023
Appln. No. 10/501,671

Submission in Accordance with 37 C.F.R. §§ 1.821-1.825 with the
Sequence Listing in paper and disk formats.

Respectfully submitted,

YOUNG & THOMPSON


Michael Piziali, Reg. No. 46,997
745 South 23rd Street
Arlington, VA 22202
Telephone (703) 521-2297

MP:fb



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
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 Alexandria, Virginia 22313-1450
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U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/501,671	Fumihide Nishio	8062-1023
INTERNATIONAL APPLICATION NO.		PCT/JP03/00339
I.A. FILING DATE		PRIORITY DATE
01/17/2003		01/18/2002
CONFIRMATION NO. 9947 371 FORMALITIES LETTER  *OC000000015512526*		

Date Mailed: 03/31/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 07/16/2004
- Copy of the International Search Report filed on 07/16/2004
- Copy of IPE Report filed on 07/16/2004
- Preliminary Amendments filed on 07/16/2004
- Information Disclosure Statements filed on 07/16/2004
- Biochemical Sequence Diskette filed on 07/16/2004
- Biochemical Sequence Listing filed on 07/16/2004
- Request for Immediate Examination filed on 07/16/2004
- Copy of references cited in ISR filed on 07/16/2004
- U.S. Basic National Fees filed on 07/16/2004
- Priority Documents filed on 07/16/2004

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- This application clearly fails to comply with the requirements of 37 CFR 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing", an initial paper or compact disc copy of the "Sequence Listing", as well as an amendment directing its entry into the application. Applicant must also

provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

- This application does not contain a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). Applicant must provide such statement. If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000).

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

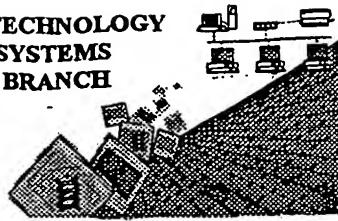
A copy of this notice MUST be returned with the response.

CHRISTINE S WASHINGTON

Telephone: (703) 308-9140 EXT 228

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/501,671	PCT/JP03/00339	8062-1023



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/501,671
Source: PCG/10
Date Processed by STIC: 7/23/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>10/501,671</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input checked="" type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue . Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n/Xaa	"n" can only represent a single nucleotide ; "Xaa" can only represent a single amino acid	



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/501,671

DATE: 07/23/2004
TIME: 15:23:45

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\07232004\J501671.raw

3 <110> APPLICANT: Asahi Kasei Kabushiki Kaisha
W--> 4 <120> TITLE OF INVENTION: High-concentration preparation of soluble thrombomodulin
6 <130> FILE REFERENCE: ASAHI-33
C--> 8 <140> CURRENT APPLICATION NUMBER: US/10/501,671
C--> 8 <141> CURRENT FILING DATE: 2004-07-16
8 <150> PRIOR APPLICATION NUMBER: JP2002-009951
9 <151> PRIOR FILING DATE: 2002-01-18
11 <160> NUMBER OF SEQ ID NOS: 9

ERRORED SEQUENCES

mp 1-6
Data Not Comply
with 350 Directive
Need to

13 <210> SEQ ID NO: 1
14 <211> LENGTH: 516
15 <212> TYPE: PRT
16 <213> ORGANISM: Artificial sequence
18 <220> FEATURE:
19 <223> OTHER INFORMATION: Partial amino acid sequence of human-originated soluble
20 thrombomodulin
22 <400> SEQUENCE: 1
23 Met Leu Gly Val Leu Val Leu Gly Ala Leu Ala Leu Gly Leu Gly
E--> 24 1 5 5 10 10 15 misaligned
25 Phe Pro Ala Pro Ala Glu Pro Gln Pro Gly Gly Ser Gln Cys Val Glu
E--> 26 20 20 25 25 30 30 amino acid numbers
27 His Asp Cys Phe Ala Leu Tyr Pro Gly Pro Ala Thr Phe Leu Asn Ala
E--> 28 35 40 45 (see item 3
29 Ser Gln Ile Cys Asp Gly Leu Arg Gly His Leu Met Thr Val Arg Ser
E--> 30 50 55 60 on Err
31 Ser Val Ala Ala Asp Val Ile Ser Leu Leu Leu Asn Gly Asp Gly Gly
E--> 32 65 70 75 summary sheet)
33 Val Gly Arg Arg Arg Leu Trp Ile Gly Leu Gln Leu Pro Pro Gly Cys
E--> 34 85 90 95
35 Gly Asp Pro Lys Arg Leu Gly Pro Leu Arg Gly Phe Gln Trp Val Thr
E--> 36 100 105 110
37 Gly Asp Asn Asn Thr Ser Tyr Ser Arg Trp Ala Arg Leu Asp Leu Asn
E--> 38 115 120 125
39 Gly Ala Pro Leu Cys Gly Pro Leu Cys Val Ala Val Ser Ala Ala Glu
E--> 40 130 135 140
41 Ala Thr Val Pro Ser Glu Pro Ile Trp Glu Glu Gln Gln Cys Glu Val
E--> 42 145 150 155 160
43 Lys Ala Asp Gly Phe Leu Cys Glu Phe His Phe Pro Ala Thr Cys Arg
E--> 44 165 170 175
45 Pro Leu Ala Val Glu Pro Gly Ala Ala Ala Ala Val Ser Ile Thr

See p. 2

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/501,671

DATE: 07/23/2004
TIME: 15:23:45

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\07232004\J501671.raw

E--> 46	180	185	190	
← 47	Tyr Gly Thr Pro Phe Ala Ala Arg Gly Ala Asp Phe Gln Ala Leu Pro			
E--> 48	195	200	205	
← 49	Val Gly Ser Ser Ala Ala Val Ala Pro Leu Gly Leu Gln Leu Met Cys			
E--> 50	210	215	220	
← 51	Thr Ala Pro Pro Gly Ala Val Gln Gly His Trp Ala Arg Glu Ala Pro			
E--> 52	225	230	235	240
← 53	Gly Ala Trp Asp Cys Ser Val Glu Asn Gly Gly Cys Glu His Ala Cys			
E--> 54	245	250	255	
← 55	Asn Ala Ile Pro Gly Ala Pro Arg Cys Gln Cys Pro Ala Gly Ala Ala			
E--> 56	260	265	270	
← 57	Leu Gln Ala Asp Gly Arg Ser Cys Thr Ala Ser Ala Thr Gln Ser Cys			
E--> 58	275	280	285	
← 59	Asn Asp Leu Cys Glu His Phe Cys Val Pro Asn Pro Asp Gln Pro Gly			
E--> 60	290	295	300	
← 61	Ser Tyr Ser Cys Met Cys Glu Thr Gly Tyr Arg Leu Ala Ala Asp Gln			
E--> 62	305	310	315	320
← 63	His Arg Cys Glu Asp Val Asp Asp Cys Ile Leu Glu Pro Ser Pro Cys			
E--> 64	325	330	335	
← 65	Pro Gln Arg Cys Val Asn Thr Gln Gly Gly Phe Glu Cys His Cys Tyr			
E--> 66	340	345	350	
← 67	Pro Asn Tyr Asp Leu Val Asp Gly Glu Cys Val Glu Pro Val Asp Pro			
E--> 68	355	360	365	
← 69	Cys Phe Arg Ala Asn Cys Glu Tyr Gln Cys Gln Pro Leu Asn Gln Thr			
E--> 70	370	375	380	
← 71	Ser Tyr Leu Cys Val Cys Ala Glu Gly Phe Ala Pro Ile Pro His Glu			
E--> 72	385	390	395	400
← 73	Pro His Arg Cys Gln Met Phe Cys Asn Gln Thr Ala Cys Pro Ala Asp			
E--> 74	405	410	415	
← 75	Cys Asp Pro Asn Thr Gln Ala Ser Cys Glu Cys Pro Glu Gly Tyr Ile			
E--> 76	420	425	430	
← 77	Leu Asp Asp Gly Phe Ile Cys Thr Asp Ile Asp Glu Cys Glu Asn Gly			
E--> 78	435	440	445	
← 79	Gly Phe Cys Ser Gly Val Cys His Asn Leu Pro Gly Thr Phe Glu Cys			
E--> 80	450	455	460	
← 81	Ile Cys Gly Pro Asp Ser Ala Leu Val Arg His Ile Gly Thr Asp Cys			
E--> 82	465	470	475	480
← 83	Asp Ser Gly Lys Val Asp Gly Gly Asp Ser Gly Ser Gly Glu Pro Pro			
E--> 84	485	490	495	
← 85	Pro Ser Pro Thr Pro Gly Ser Thr Leu Thr Pro Pro Ala Val Gly Leu			
E--> 86	500	505	510	
← 87	Val His Ser Gly			
E--> 88	515			
90	<210> SEQ ID NO: 2			
91	<211> LENGTH: 1548			
92	<212> TYPE: DNA			
93	<213> ORGANISM: Artificial sequence			
95	<220> FEATURE:			
96	<223> OTHER INFORMATION: Partial base sequence of human-originated soluble			

1547 (P.3)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/501,671

DATE: 07/23/2004
TIME: 15:23:45

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\07232004\J501671.raw

97 thrombomodulin gene
99 <400> SEQUENCE: 2
100 atgcttgggg tcctggtcct tggcgcgctg gcccggccg gcctgggtt ccccgaccc 60
101 gcagagccgc agccgggtgg cagccagtgc gtccagcactg actgcttcgc gcttacccg 120
102 ggcccccgca ccttcctcaa tgccagtcag atctgcacg gactgcgggg ccacctaatg 180
103 acagtgcgt cctcggtggc tgccatgtc atttccttcg tactgaacgg cgacggcggc 240
104 gttggccgccc ggccgcctcg gatcgccctg cagctgcacg ccggctgcgg cgaccccaag 300
105 cgcctcgccc ccctgcgcgg cttccagttg gttacgggag acaacaacac cagctatagc 360
106 aggtgggcac ggctcgaccc caatggggct ccctctgcg gcccgtgtg cgtcgctgtc 420
107 tccgctgctg aggccactgt gcccagcgag ccgatctggg aggagcagca gtgcgaagtg 480
108 aaggccgatg gcttcctctg cgagttccac ttcccagcca cctgcaggcc actggctgtg 540
109 gagcccgccg ccgcggctgc cgcgtctcg atcacctacg gcaccccggtt cgccggccgc 600
110 ggagcggact tccaggcgct gccgggtggc agtccgcgg cgggtgtcc cctcggttta 660
111 cagctaattgt gcacccgcgc gcccggagcg gtcaggggc actggccag ggaggcgcgg 720
112 ggccgttggg actgcagcgt ggagaacggc ggctgcgagc acgcgtgca tgcatccct 780
113 ggggctcccc gctgccagtg cccagccggc gcccgcctgc aggccagacgg ggcgtctgc 840
114 accgcattccg cgacgcagtc ctgcacacgc ctctgcgagc acttctgcgt tcccaacccc 900
115 gaccagccgg gctctactc gtgcattgtc gagacggct acggctggc ggccgaccaa 960
116 caccggcgcg aggacgtgga tgactgcata ctggagccca gtcgggttcc gcaagcgtgt 1020
117 gtcaacacac aggggtggctt cgagtgcac ctcgttccat actacgaccc ggtggacggc 1080
118 gagtgtgtgg agcccggtgg cccgtgttc agagccact gcgagttacca gtccagcc 1140
119 ctgaacccaa ctagctaccc ctgcgtctgc gcccggggct tccgccttccat tcccaacgg 1200
120 cccgcacagggt gccagatgtt ttgcaaccag actgcctgtc cagccgactg cgaccccaac 1260
121 acccaggcta gctgtgagtg ccctgaaggc tacatctgg acgacgttt catctgcacg 1320
122 gacatcgacg agtgcgaaaa cggccggcttc tgctccgggg tgcgttccat ccccccgg 1380
E--> 123 accttcgagtc gcatctgcgg gcccgaactcg gccttgcgtcc gccacattgg caccgac 1440/439
E--> 124 gactccggca aggtggacgg tggcgacacg cggcttggcg agcccccggc 1500/499
E--> 125 cccggctcca ctttgcactcc tccggccgtg gggctcgatgc attcgggc 1548

1547

Fy I:
periods
are
involv
nuclei
acid.

This is a
group of 9 positions,
not 10.
design

127 <210> SEQ ID NO: 3
128 <211> LENGTH: 132
129 <212> TYPE: PRT
130 <213> ORGANISM: Artificial sequence

132 <220> FEATURE:

133 <223> OTHER INFORMATION: Partial amino acid sequence of human-originated soluble
134 thrombomodulin

E--> 136 <400> SEQUENCE: 8 3 <change to

137 Met Leu Gly Val Leu Val Leu Gly Ala Leu Ala Leu Ala Gly Leu Gly

E--> 138 1 5 10 15

E--> 139 Phe Pro Asp Pro Cys Phe Arg Ala Asn Cys Glu Tyr Gln Cys Gln Pro

E--> 140 20 25 30

E--> 141 Leu Asn Gln Thr Ser Tyr Leu Cys Val Cys Ala Glu Gly Phe Ala Pro

E--> 142 35 40 45

E--> 143 Ile Pro His Glu Pro His Arg Cys Gln Met Phe Cys Asn Gln Thr Ala

E--> 144 50 55 60

E--> 145 Cys Pro Ala Asp Cys Asp Pro Asn Thr Gln Ala Ser Cys Glu Cys Pro

E--> 146 65 70 75 80

E--> 147 Glu Gly Tyr Ile Leu Asp Asp Gly Phe Ile Cys Thr Asp Ile Asp Glu

E--> 148 85 90 95

E--> 149 Cys Glu Asn Gly Phe Cys Ser Gly Val Cys His Asn Leu Pro Gly

misaligned amino acid numbers

see p. 4

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/501,671

DATE: 07/23/2004
TIME: 15:23:45

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\07232004\J501671.raw

misaligned numbers

E--> 150 100 105 110
151 Thr Phe Glu Cys Ile Cys Gly Pro Asp Ser Ala Leu Val Arg His Ile
E--> 152 115 120 125
153 Gly Thr Asp Cys
E--> 154 130
174 <210> SEQ ID NO: 5
175 <211> LENGTH: 516
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Partial amino acid sequence of human-originated soluble
181 thrombomodulin
183 <400> SEQUENCE: 5
184 Met Leu Gly Val Leu Val Leu Gly Ala Leu Ala Leu Ala Gly Leu Gly
E--> 185 1 5 10 15
186 Phe Pro Ala Pro Ala Glu Pro Gln Pro Gly Gly Ser Gln Cys Val Glu
E--> 187 20 25 30
188 His Asp Cys Phe Ala Leu Tyr Pro Gly Pro Ala Thr Phe Leu Asn Ala
E--> 189 35 40 45
190 Ser Gln Ile Cys Asp Gly Leu Arg Gly His Leu Met Thr Val Arg Ser
E--> 191 50 55 60
192 Ser Val Ala Ala Asp Val Ile Ser Leu Leu Leu Asn Gly Asp Gly Gly
E--> 193 65 70 75 80
194 Val Gly Arg Arg Arg Leu Trp Ile Gly Leu Gln Leu Pro Pro Gly Cys
E--> 195 85 90 95
196 Gly Asp Pro Lys Arg Leu Gly Pro Leu Arg Gly Phe Gln Trp Val Thr
E--> 197 100 105 110
198 Gly Asp Asn Asn Thr Ser Tyr Ser Arg Trp Ala Arg Leu Asp Leu Asn
E--> 199 115 120 125
200 Gly Ala Pro Leu Cys Gly Pro Leu Cys Val Ala Val Ser Ala Ala Glu
E--> 201 130 135 140
202 Ala Thr Val Pro Ser Glu Pro Ile Trp Glu Glu Gln Gln Cys Glu Val
E--> 203 145 150 155 160
204 Lys Ala Asp Gly Phe Leu Cys Glu Phe His Phe Pro Ala Thr Cys Arg
E--> 205 165 170 175
206 Pro Leu Ala Val Glu Pro Gly Ala Ala Ala Ala Val Ser Ile Thr
E--> 207 180 185 190
208 Tyr Gly Thr Pro Phe Ala Ala Arg Gly Ala Asp Phe Gln Ala Leu Pro
E--> 209 195 200 205
210 Val Gly Ser Ser Ala Ala Val Ala Pro Leu Gly Leu Gln Leu Met Cys
E--> 211 210 215 220
212 Thr Ala Pro Pro Gly Ala Val Gln Gly His Trp Ala Arg Glu Ala Pro
E--> 213 225 230 235 240
214 Gly Ala Trp Asp Cys Ser Val Glu Asn Gly Gly Cys Glu His Ala Cys
E--> 215 245 250 255
216 Asn Ala Ile Pro Gly Ala Pro Arg Cys Gln Cys Pro Ala Gly Ala Ala
E--> 217 260 265 270
218 Leu Gln Ala Asp Gly Arg Ser Cys Thr Ala Ser Ala Thr Gln Ser Cys
E--> 219 275 280 285

misaligned amino acid numbers

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/501,671

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Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\07232004\J501671.raw

220 Asn Asp Leu Cys Glu His Phe Cys Val Pro Asn Pro Gln Pro Gly
E--> 221 290 295 300 *same error*
222 Ser Tyr Ser Cys Met Cys Glu Thr Gly Tyr Arg Leu Ala Ala Asp Gln
E--> 223 305 310 315 320
224 His Arg Cys Glu Asp Val Asp Asp Cys Ile Leu Glu Pro Ser Pro Cys
E--> 225 325 330 335
226 Pro Gln Arg Cys Val Asn Thr Gln Gly Phe Glu Cys His Cys Tyr
E--> 227 340 345 350
228 Pro Asn Tyr Asp Leu Val Asp Gly Glu Cys Val Glu Pro Val Asp Pro
E--> 229 355 360 365
230 Cys Phe Arg Ala Asn Cys Glu Tyr Gln Cys Gln Pro Leu Asn Gln Thr
E--> 231 370 375 380
232 Ser Tyr Leu Cys Val Cys Ala Glu Gly Phe Ala Pro Ile Pro His Glu
E--> 233 385 390 395 400
234 Pro His Arg Cys Gln Met Phe Cys Asn Gln Thr Ala Cys Pro Ala Asp
E--> 235 405 410 415
236 Cys Asp Pro Asn Thr Gln Ala Ser Cys Glu Cys Pro Glu Gly Tyr Ile
E--> 237 420 425 430
238 Leu Asp Asp Gly Phe Ile Cys Thr Asp Ile Asp Glu Cys Glu Asn Gly
E--> 239 435 440 445
240 Gly Phe Cys Ser Gly Val Cys His Asn Leu Pro Gly Thr Phe Glu Cys
E--> 241 450 455 460
242 Ile Cys Gly Pro Asp Ser Ala Leu Ala Arg His Ile Gly Thr Asp Cys
E--> 243 465 470 475 480
244 Asp Ser Gly Lys Val Asp Gly Gly Asp Ser Gly Ser Gly Glu Pro Pro
E--> 245 485 490 495
246 Pro Ser Pro Thr Pro Gly Ser Thr Leu Thr Pro Pro Ala Val Gly Leu
E--> 247 500 505 510
248 Val His Ser Gly
E--> 249 515
288 <210> SEQ ID NO: 7
289 <211> LENGTH: 132
290 <212> TYPE: PRT
291 <213> ORGANISM: Artificial sequence
W--> 292 <220> FEATURE:
293 <223> OTHER INFORMATION: Partial amino acid sequence of human-originated soluble
294 thrombomodulin
296 <400> SEQUENCE: 7
297 Met Leu Gly Val Leu Val Leu Gly Ala Leu Ala Leu Ala Gly Leu Gly
E--> 298 1 5 10 15
299 Phe Pro Asp Pro Cys Phe Arg Ala Asn Cys Glu Tyr Gln Cys Gln Pro
E--> 300 20 25 30
301 Leu Asn Gln Thr Ser Tyr Leu Cys Val Cys Ala Glu Gly Phe Ala Pro
E--> 302 35 40 45
303 Ile Pro His Glu Pro His Arg Cys Gln Met Phe Cys Asn Gln Thr Ala
E--> 304 50 55 60
305 Cys Pro Ala Asp Cys Asp Pro Asn Thr Gln Ala Ser Cys Glu Cys Pro
E--> 306 65 70 75 80
307 Glu Gly Tyr Ile Leu Asp Asp Gly Phe Ile Cys Thr Asp Ile Asp Glu

misaligned amino acid numbers
P.6

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/501,671

DATE: 07/23/2004
TIME: 15:23:45

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\07232004\J501671.raw

misaligned amino acid numbers

E--> 308 85 90 95
309 Cys Glu Asn Gly Gly Phe Cys Ser Gly Val Cys His Asn Leu Pro Gly
E--> 310 100 105 110
311 Thr Phe Glu Cys Ile Cys Gly Pro Asp Ser Ala Leu Ala Arg His Ile
E--> 312 115 120 125
313 Gly Thr Asp Cys
E--> 314 130
334 <210> SEQ_ID NO: 9
335 <211> LENGTH: 21
336 <212> TYPE: DNA
337 <213> ORGANISM: Artificial sequence
339 <220> FEATURE:
340 <223> OTHER INFORMATION: Synthetic DNA for mutation
342 <400> SEQUENCE: 9
343 aatgtggcg a 21
E--> 349 1/12

delete

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/23/2004
PATENT APPLICATION: US/10/501,671 TIME: 15:23:46

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\07232004\J501671.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

```
Seq#:1; Line(s) 32
Seq#:3; Line(s) 146
Seq#:4; Line(s) 172
Seq#:7; Line(s) 306
Seq#:8; Line(s) 332
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/501,671

DATE: 07/23/2004
TIME: 15:23:46

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\07232004\J501671.raw

L:4 M:283 W: Missing Blank Line separator; <120> field identifier
L:8 M:270 C: Current Application Number differs, Replaced Current Application No
L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:24 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1 /
M:332 Repeated in SeqNo=1
L:123 M:254 E: No. of Bases conflict, LENGTH:Input:1440 Counted:1439 SEQ:2 ✓
L:123 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1 /
M:254 Repeated in SeqNo=2
L:125 M:252 E: No. of Seq. differs, <211> LENGTH:Input:1548 Found:1547 SEQ:2 /
L:136 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:3 differs:8
L:138 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8 /
M:332 Repeated in SeqNo=3
L:185 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5 /
M:332 Repeated in SeqNo=5
L:292 M:283 W: Missing Blank Line separator, <220> field identifier
L:298 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7 ✓
M:332 Repeated in SeqNo=7
L:349 M:254 E: No. of Bases conflict, LENGTH:Input:12 Counted:22 SEQ:9
L:349 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:349 M:252 E: No. of Seq. differs, <211> LENGTH:Input:21 Found:22 SEQ:9